



**UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/540,201 03/31/00 BITSCHKE 0 225/48731

MM91/0921
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WASHINGTON DC 20005

EXAMINER

LAM, T

ART UNIT

PAPER NUMBER

2834

DATE MAILED:

09/21/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/540,201

Applicant(s)
Bitsche et al.

Examiner
Thanh Lam

Art Unit
2834



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on Aug 8, 2001.

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-10 is/are pending in the application.

4a) Of the above, claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 1-10 is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

a) ☐ All b) ☐ Some* c) ☐ None of:

- 1. ☐ Certified copies of the priority documents have been received.
- 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
- 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☐ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____
- 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other:

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on 08/08/01 have been fully considered but they are not persuasive.

In response to applicant's argument that Carpenter does not constitute "a spring bias device and do not provide a radially outward force on the ends of the exciter coils facing the rotor in direction away from the rotor." The examiner submits that the term "device" it normally is meaning a combination of the mechanical or electrical elements to be connected together to become a device to sever its purpose. Therefore, the combination of wedges (24) as taught by Carpenter is considered a spring bias device and the device inherently provide a radially outward force on the ends of the exciter coils (17) facing the rotor in direction away from the rotor in order to hold (radial force against the windings 17 and see col. 3, lines 8-14) coils in place or prevent the coils from slipping out of the slots.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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3. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Carpenter.

Carpenter discloses a reluctance motor comprising: a rotor and at least two salient stator poles wherein each of said stator poles has an exciter coil (17) surrounding respective stator poles with one end of each of said exciter coils facing said rotor; a spring biasing device (24) contacting said end of each of said exciter coils facing said rotor wherein said spring biasing device provides a radially outward force on the ends of said exciter coils facing said rotor in a direction away from said rotor.

Regarding claim 2, wherein said spring biasing device is at least one snap ring.

Regarding claim 3, wherein said exciter coils are gripped between the spring biasing device and a yoke of the stator.

Regarding claim 4, wherein each of said stator poles has a groove in at proximately the center of the end facing the rotor wherein said groove receives said spring biasing device.

Regarding claim 5, wherein in the axial direction of a yoke of the stator, at each end of the stator poles, an outwardly springing one of said at least one snap springs contacts the ends of the exciter coils facing the rotor.

Regarding claim 6, wherein each of said at least one snap ring is disposed of one flat side adjacent said stator poles.

Regarding claim 7, wherein each of said at least one snap ring is made of spring steel.

Regarding claim 8, the method therein is inherent given the apparatus of Carpenter.

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Regarding claim 9, a reluctance motor having a motor and at least two salient stator poles with each of said stator poles being provided with an exciter coil, said reluctance motor further comprising at least one biasing mean positioned against an end of each of said exciter coils which faces said rotor to apply a radial force to said exciter coils in a direction away from said rotor.

Regarding claim 10, wherein said biasing means is a snap ring.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

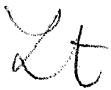
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (703) 308-7626. The fax phone number for this Group is (703) 305-3431.

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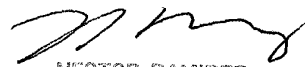
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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0656.



Thanh Lam

Sept. 13, 2001



NESTOR RAMIREZ
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800